

9345.0-01
OSWER DIRECTIVE
PA CHECKLIST

REFERENCE (PAGE NO.)

I. SITE BACKGROUND INFORMATION

- | | |
|--|------------------------|
| O Site name | <u>PA (3)</u> |
| O Site number | <u>PA (3)</u> |
| O Address | <u>PA (3)</u> |
| O Coordinates (latitude and longitude in degrees, minutes, seconds, or township and range numbers) | <u>PA (3)</u> |
| O Directions to site (starting from nearest public road) | <u>PA (3) FIG. 4-1</u> |

II. RESPONSIBLE PARTIES

- | | |
|--|------------------------|
| O Owner | <u>SI (11)</u> |
| O Address (current and past, if available) | <u>SI (11)</u> |
| O Telephone number | <u>PA & SI (3)</u> |
| O Operator | <u>SI (12)</u> |
| O Operator's address | <u>SI (12)</u> |
| O Operator's telephone number | <u>SI & PA (3)</u> |
| O Type of ownership (specify private, Federal, state, county, municipal) | <u>FEDERAL</u> |

III. OVERVIEW/SITE HISTORY

- | | |
|---|-------------------|
| O Site operations | |
| - history/years of operation | <u>PA (7-14)</u> |
| - nature of operations (manufacturing, waste disposal, storage, etc.) | <u>PA (7-8)</u> |
| O Description of any emergency or remedial actions that have occurred at the site | <u>PA (42-47)</u> |



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- Description of any prior spills
- Description of relevant permits
- Description of existing sampling and analytic data and brief summary of data quality
- Evaluate the data quality for the following:
 - sample objectives
 - age/comparability
 - analytical methods
 - detection limits
 - QA/QC

PA (22-37)NONEPA (22-37)MSX QAPjPMSX QAPjPMSX QAPjPMSX QAPjPMSX QAPjP

IV. WASTE CONTAINMENT/HAZARDOUS SUBSTANCE IDENTIFICATION

- Describe as specifically as possible the methods of hazardous substance disposal, storage, or handling.
- Describe the condition/integrity of each storage disposal feature or structure. Evaluate from the perspective of each migration pathway (e.g., ground water pathway - nonexistent natural or synthetic liner, corroding underground storage tank; surface water - inadequate freeboard, corroding bulk tanks; air - unstabilized slag piles, leaking drums, etc.).
- Describe any secondary containment features/structures (such as run-on diversion system, leachate collection systems).
- Describe size/volume of all features/structures that contain hazardous substances or volume of previously reported spills.
- Describe as precisely as possible existing permits and the types of hazardous substances handled on site.

PA (20-21)PA (20-21, 37-41)PA (20-21)PA (9, 42-47)SI (8) PA (22-37)

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- Discuss any records or manifests which provide data on volume of hazardous substances handled/disposed/released on site.

PA (42-47)

V. GROUND WATER PATHWAY

- Determine if ground water within four¹ miles of the site is used for any of the following purposes (if the answer to this is "unusable," then it is not necessary to answer the following questions).
 - private or public drinking water source
 - commercial (DOMESTIC)
 - irrigation (5-acre minimum)
 - industrial
 - not used, but usable
 - unusable
- Determine the population drinking ground water drawn from wells within four¹ miles of the site.
- Identify nearest well within four¹ miles that is a source of drinking water.
- As precisely as possible, describe the geology and hydrogeology of the area (including names, thickness, types of material and depth from surface, including soils).
- Discuss any evidence of discontinuities between aquifers/aquitards within four¹ miles of the site.
- Discuss any evidence of interconnections between aquifers within two¹ miles of the site.
- Estimate annual net precipitation (by summing monthly values).

SI (44)

NO

SI (44-45)

NO

SI (44-45)

YES

NO

NONE

SI (44-45)

SI (36-52)

SI (36-52)

SI (36-52)

SI (28)

¹Distance based on proposed revisions to the HRS.

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- Discuss soil or geological conditions that might inhibit or facilitate ground water migration.
- Discuss, if possible, alternative water supply sources that are readily available.
- Discuss any qualitative, quantitative, or circumstantial (e.g., closure of a well) evidence of a release to ground water.

SI (36-52)SI (41)MSX EMR's

VI. ADDITIONAL FACTORS BASED ON PROPOSED REVISIONS TO THE HRS FOR THE GROUND WATER PATHWAY

- Identify if any sources lie within a Wellhead Protection Area as designated according to Section 1428 of the Safe Drinking Water Act.¹
- Determine if the site is located in an area of karst terrain.

NONO

VII. SURFACE WATER PATHWAY

- Discuss the probable surface runoff patterns from the site to surface waters.
- Discuss whether the facility is located in surface water (e.g., marsh, swamp) or a floodplain.
- From a topographic map, calculate and discuss the slope between the point where hazardous substances begin to migrate and the probable point of entry into the surface water body.
- Describe surface water bodies of concern within the 152-mile target distance limit.

SI (41-43)SI (FIG. 6-3, 45)SI (FIG. 6-2, 43)MSX EMR's SI (41-44)

¹Factor based on proposed revisions to the HRS.

²Distance based on proposed revisions to the HRS.

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- Identify if surface water drawn from intakes within 15¹ miles from the probable point of entry is used for any of the following purposes:

- irrigation of commercial food or forage crops (5-acre minimum)
- commercial livestock watering
- commercial food preparation
- commercial/industrial purposes other than drinking water, recreation, or fishery uses

NO INFORMATION

NO INFORMATION

NO INFORMATION

NO INFORMATION

- Identify and discuss the nature and size of any of the following targets within the 15¹-mile target distance limit:

- population served by intakes drawing drinking water
- population associated with recreational use²
- sensitive environments (including fresh water or coastal wetlands [5-acre minimum] and critical habitats of a federally-designated endangered species)
- economically important resources (e.g., shellfish)²

SI (41)

NO INFORMATION

NO INFORMATION

NO INFORMATION

- Discuss any qualitative, quantitative, or circumstantial (e.g., contaminated surface water downstream of the site) evidence of a release to surface water.

PA (32) SI (44)

VIII. ADDITIONAL FACTORS BASED ON PROPOSED REVISIONS TO THE HRS FOR THE SURFACE WATER PATHWAY

- From a topographic map, estimate the size (in acres) of the upgradient drainage area from the site.

NO INFORMATION

¹Distance based on proposed revisions to the HRS.

²Factor based on proposed revisions to the HRS.

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|---|-----------------------|
| ○ Discuss the average annual stream-flow in the vicinity of the site. | <u>NO INFORMATION</u> |
| ○ Discuss any biological sampling that might assess the food chain and recreational impacts. | <u>NO INFORMATION</u> |
| ○ If fisheries (recreational or commercial) exist within the 15-mile target distance limit, assess each of the following: | |
| - acreage of oceans, large lakes, or rivers | <u>NO INFORMATION</u> |
| - acreage of ponds or lakes fed by low-volume streams | <u>NO INFORMATION</u> |

IX. ADDITIONAL FACTORS BASED ON PROPOSED REVISIONS TO THE HRS FOR THE AIR PATHWAY

- | | |
|---|--------------------|
| ● Determine the population within a four-mile radius of the site (allocated in 1/4, 1/2, 1, 2, 3, 4-mile ring distances). | <u>SI (34)</u> |
| ● Determine the distance to the nearest residence or regularly occupied building as measured from any onsite emission source. If onsite, determine how many residents or workers occupy the building. | <u>MSX (EMR's)</u> |
| ○ Determine the distance to the following land uses within a four-mile radius: | |
| - commercial/industrial | <u>SI (35)</u> |
| - residential | <u>SI (35)</u> |
| - schools | <u>SI (35)</u> |
| - parks | <u>SI (35)</u> |
| - agricultural | <u>NONE</u> |
| ○ Identify, locate, and discuss any nearby fresh water or coastal wetlands (5-acre minimum) or critical habitats of federally-designated endangered species that could be affected by a release. | <u>NONE</u> |

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- Discuss any quantitative or qualitative evidence of a release to air.

PA (37-44)

- Determine particulate source mobility value (see Figure 2-3 in the proposed rule).

SURFACE MOISTURE CONTENT = 0 SINCE
SITE IS COVERED BY ASPHALT AND
STORAGE PILES ARE COVERED.

**X. ADDITIONAL FACTORS BASED ON PROPOSED REVISIONS
TO THE HRS FOR THE ONSITE EXPOSURE PATHWAY**

- Discuss any qualitative or quantitative evidence of onsite soil contamination. If there is no evidence of onsite soil contamination, then it is not necessary to answer the following questions.

PA (22-41)

- Determine the onsite population (i.e., people living or attending school or day care on contaminated property).

3 WORKERS

- Determine the population within one mile of the site (i.e., individuals who live or go to school within one mile of the site).

SI (FIG. 4-3, 18)

- Describe any restrictions/barriers on accessibility to onsite waste materials.

SI (8)

- Identify and discuss any onsite terrestrial sensitive environments.

NONE

- Describe the area of surface contamination (both on and off site).

PA (22-41)